



Missionsoft Testing Service

International IT Examinations Council
For Database Programmers, Systems Developers,
MIS Engineers and ICT Professionals

MISCERT0011-APR 2012
MTS II-ERP MIS ENG
SQL ACCOUNTS
3 Hours

Missionsoft Testing Service

Level 2

MTS Certified ERP MIS Engineers

SQL Accounts Reports

April 2012

3 Hours

Instructions

Answer one question only

You are reminded of the importance of clarity of expression and orderly presentation of the codes.

You can use any of the following SQL Engines/Applications:

- Oracle SQL
- MS SQL Server
- PowerEngine (VB SQL)
- MySQL
- PL/SQL Developer

NB: Make sure you state the type of engine or applications that can interpret/compile your SQL Scripts. One hour extra is allocated to online students for downloading questions, and attaching answers and send. Answers should be in Microsoft Word documents

Question 1

Mawulolo Company Ltd deals in Computer chairs, dinner tables, computer and accessories. They bought some products from their suppliers on credit and made some payments. They sold some to their customers and received some payments from their customers. The following tables show the list of the transactions.

Sales_to_Customers

Products	Customer	UnitPrice	Quantity	Amount	Paymode
Comp Chair	MELCOM	10	40	400	Credit
Dinner Table	SINTEX	15	50	750	Credit
Flat Screen	MELCOM	20	50	1000	Credit

Receipts_From_Customers

Customer	Amount	Paymode
MELCOM	40	Cash
SINTEX	100	Cash
MELCOM	100	Cash
MELCOM	50	Cash
MELCOM	100	Cash

Purchases_From_Suppliers

Products	Customer	UnitPrice	Quantity	Amount	Paymode
Comp Chair	SRG GROUP	7	150	1050	Credit
Dinner Table	CENTURY IND	12	100	1200	Credit
Flat Screen	MITSUI GROUP	15	120	1800	Credit

Payments_To_Suppliers

Customer	Amount	Paymode
MITSUI GROUP	40	Cash
CENTURY IND	100	Cash
MITSUI GROUP	100	Cash
MITSUI GROUP	50	Cash
MITSUI GROUP	100	Cash
CENTURY IND	500	Cash

Required: Use the SQL Accounts Technology in Oracle PL/SQL Developer to write codes that will produce Customer Accounts, Suppliers Accounts, Inventory Reports, Gross Profit, Receipts and Payments reports. The templates are displayed below.

Customers Account

Customer	Credit Sales Amount	Incoming Payments Amount	Balance
MELCOM	50	20	30
SINTEX	60	50	10

Suppliers Account

Supplier	Credit Purchases Amount	Outgoing Payments Amount	Balance
mitsui group	50	10	40
Century Ind	60	20	40

Inventory Report

Products	Quantity Purchased	Quantity Sold	Stock Balance
Comp Chair	50	10	40
Flat Screen	60	20	40

Gross Profit

Products	Selling Price	Unit Cost	Quantity Sold	Sales Amount	Purchases Amount	Gross Profit
Comp Chair	10	7	40	400	280	120
Flat Screen	20	15	50	1000	750	250

Receipts_Payments Report

Cash Type	Amount Received	Amount Paid	Available Cash
Cash	50	10	40
Bank	60	20	40

Question2

a) Fixed Assets Management

Create three tables namely assets_acquisition, assets_depreciation and assets_disposal. Generate the reports that show the balance of each asset for a given date by subtracting the depreciation and assets disposal from assets acquired. The report will be used to prepare the balance sheet

b) Cash Book Management

The Managing Director of Sintex Packaging Ghana Ltd is looking for an ERP MIS Engineer that will generate a report summarizing all Cash and Bank transactions monthly both incoming payments and outgoing payments. The report will look like the template below.

Month	Cash_IN	Cash_Out	Cash_Bal	Bank_IN	Bank_Out	Bank_Bal
Jan_2012	100	80	20	400	100	300
Feb_2012	200	150	50	450	300	150

Write the SQL codes that

1. Create the incoming_Payments and outgoing_payments tables. Use your own fields
2. Insert sample test data in it using insert statements
3. Produce the above cash and bank reports

c) Raw Materials Management

V5 Plastics is extrusion plastic manufacturing company in Ghana. They produce shopping bags, rolls and water sachets. They import the following raw materials (LDPE, HDPE, LLDPE) for their production. The raw material is received by the warehouse manager who in turn gives to the factory manager upon request.

Write SQL Codes that

- a. Create the tables WarehouseRM (RawMaterials, QuantityImported), FactoryRM(RawMaterials, QuantityConsumed) and insert some of the materials inside the tables for testing
- b. Join the two tables to produce the reports RawMaterialsReport (RawMaterials, QuantityImported, QuantityConsumed, RawMat_Balance)